

## Abstract

A software-defined wireless communication device is disclosed that includes a hardware platform, which can be digital or analog, as well as platform software that manages the hardware profile and waveform software that manages the signal processing functions. The software-managed hardware profiles are decoupled from the signal processing functionality of the software. In this way, waveform software can be certified, for example for compliance with FCC emission requirements, independently from the platform software and from the hardware on which the waveform software runs.

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